

Title (en)
Organotin catalyzed transesterification

Title (de)
Durch eine Organozinnverbindung katalysierte Transesterification

Title (fr)
Transestérification catalysée par un composé organostannique

Publication
EP 0781758 A1 19970702 (EN)

Application
EP 96850044 A 19960308

Priority
US 58018195 A 19951228

Abstract (en)
Methyl or ethyl esters of mono- and polycarboxylic acids are transesterified with alcohols and polyols by reaction in the presence of a catalytically effective amount of an organotin catalyst having the structure: <CHEM> wherein for each Sn, A is independently selected from alkyl groups containing from 1 to 4 carbon atoms, and X is independently selected from alkyl, chlorine, bromine, hydroxyl, 1-18 carbon atom alkoxy and 1-18 carbon atom acyloxy groups, provided that when X is alkyl, the total number of carbon atoms in A and X for each Sn is no more than 4, and when X is not alkyl, the total number of carbon atoms in A for each Sn is no more than 4; Y is selected from chlorine, bromine, hydroxyl, 1-18 carbon atom alkoxy and 1-18 carbon atom acyloxy groups, R is selected from hydrogen, 1-18 carbon atom alkyl and 1-18 carbon atom acyl groups, or Y, X and -O-R together form a stannanoic acid group or an anhydride thereof, and N is an integer from 1 to 10; so that an alcohol or polyol carboxylic acid ester is formed, which is then washed with aqueous alkali having a pH greater than about 13.2, so as to remove essentially all of the organotin catalyst, thereby permitting the recovery of the alcohol or polyol carboxylic acid ester essentially free of the organotin catalyst.

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IPC 8 full level
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C-Set (source: EP US)
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Citation (search report)
• [X] EP 0646567 A2 19950405 - CPS CHEM CO INC [US]
• [A] EP 0663386 A1 19950719 - ROEHM GMBH [DE]

Cited by
EP1634571A1; EP1067110A1; EP0937728A3; FR2924114A1; EP1669360A3; EP1201640A1; FR2815631A1; WO2013072664A1; US6479696B1; WO2009071786A1; US9212114B2

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